

Patent Claims

1. Line guidance unit (2) for the guidance of lines, cables or similar with a first end (10) that can be fixed and with a second end (11) which is mobile, where the line guidance unit (2) has a channel (12) which is formed by segments (13) which are joined together with at least one support strip (1), characterized by the fact that the segments (13) have means (33) through which the line guidance unit (2) lies in the extended state in an arc-like shape with respect to a straight line connecting the two ends (10, 11).
2. Line guidance unit according to Claim 1, characterized by the fact that the means (33) has at least one common contact surface (34), the imaginary lengthening of which intersects the straight line connecting the two ends (10, 11) in the extended state of the line guidance unit (2).
3. Line guidance unit according to Claim 1 or 2, characterized by the fact that the means (33) are formed on at least one side wall (15, 15')
4. Line guidance unit according to Claim 1, 2 or 3, characterized by the fact that the means (33) are formed on overlapping regions of neighboring segments (13, 13')
5. Line guidance unit according to one of Claims 1 to 4, characterized by the fact that a segment (13, 13') which has means (33), where this includes at least one protrusion (30, 30') which lies against a neighboring segment in the extended state of the line guidance unit.
6. Line guidance unit according to one of Claims 1 to 5, characterized by the fact that the support strip (1) has alternating support sections (3) and link sections (8) and that the support sections (3) and the link sections (8) are made from materials with different properties using the multi-component method.

7. Line guidance unit according to Claim 6, characterized by the fact that the support sections (3) and the link sections (8) are produced by the multi-component injection method.
8. Line guidance unit according to Claim 6, characterized by the fact that the support sections (3) and the link sections (8) are produced by the multi-component extrusion method.
9. Line guidance unit according to Claim 6, 7 or 8, characterized by the fact that the support sections (3) are designed as profiles (23), preferably as hollow profiles.
10. Line guidance unit according to one of Claims 6 to 9, characterized by the fact that the support strip (1) is formed from at least two sections (4, 5) joined together.
11. Line guidance unit according to Claim 10, characterized by the fact that the sections (4, 5) are joined together by positive or non-positive locking.
12. Line guidance unit according to one of Claims 10 or 11, characterized by the fact that the sections (4, 5) are joined to one another so that they can be separated.
13. Line guidance unit according to one of Claims 5 to 12, characterized by the fact that the support sections (3) are trapezoidal and/or rhomboidal.
14. Line guidance unit according to one of Claims 5 to 13, characterized by the fact that the link sections (8) are trapezoidal and/or rhomboidal.
15. Line guidance unit according to one of Claims 1 to 14, characterized by the fact that the segments (13) are joined to the support sections (3) by positive and/or non-positive locking.
16. Line guidance unit (2) according to one of Claims 1 to 15, characterized by the fact that the segments (13) are joined to the support sections (3) so that they can be separated.

17. Line guidance unit (2) according to one of Claims 1 to 16, characterized by the fact that the segments (13) and the support sections (3) have joining means (14).
18. Line guidance unit (2) according to Claim 17, characterized by the fact that the segments (13) have side walls (15) and that each support section (3) and/or at least one side wall (15) has a recess (16) and/or a first protrusion (17) as joining means (14), which are designed so that the first protrusion (17) engages in the recess (16).
19. Line guidance unit (2) according to Claim 18, characterized by the fact that at least one support section (3) has a leadthrough (25) going transversely to the longitudinal direction of the support strip (1) through which at least one joining element (18) extends which joins the side walls (15) of a segment (13).
20. Line guidance unit (2) according to one of Claims 1 to 19, characterized by the fact that at least one segment (13) has side walls (15) which are joined through a first transverse bridge (19), that each of the side walls (15) has a second protrusion (26, 26') which are facing one another, whereby the support section (3) is arranged between the first transverse bridge (19) and the second protrusions (26, 26').
21. Line guidance unit (2) according to one of Claims 1 to 20, characterized by the fact that at least one segment (13) has side walls (15) which are joined through a second transverse bridge (27).
22. Line guidance unit (2) according to one of Claims 1 to 21, characterized by the fact that at least one segment (13) has side walls (15, 29), where at least one side wall (15) has a partial bridge (28) which is facing the opposite side wall (29).
23. Line guidance unit (2) according to Claims 1 to 22, characterized by the fact that the segments (13) are joined with two support strips (1).